#### INTERNATIONAL SEARCH REPORT

International application No. PCT/SG 2004/000022

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H04B 7/04, H04L 27/02

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04B, H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, PAJ, EPODOC, Elsevier, IEE, I3E, IEEEXplore

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	Won Namgoon, 'Channelized digital receivers for impulse radio.' In: ICC '03. IEEE International Conference on Communications 2003, Volume: 4, 11-15 May 2003 Pages: 2884 - 2888	1-35	
Α	US 2003/0202801 A1 (IZADPANAH) 30 October 2003 (30.10.2003) figures; abstract; sections 53-60, 87-89.	1-35	
А	US 2003/0227890 A1 (BATRA et al.) 11 December 2003 (11.12.2003) figures; abstract; sections 28-36, 65-73.	1-35	

L	ᆚ	F	urt	her	documents	are	listed	in	the	continuation	of Box	C.
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- lents are fisted in the continuation of box C.
- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed

## See patent family annex.

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 7 December 2004 (07.12.2004)

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Name and mailing address of the ISA/AT

Austrian Patent Office
Dresdner Straße 87, A-1200 Vienna

Facsimile No. +43 / 1 / 534 24 / 535

Authorized officer

MESA PASCASIO J.

Telephone No. +43 / 1 / 534 24 / 327

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/SG 2004/000022

Patent document cited in search report			Publication date	Patent family member(s)	Publication date	
A		<del></del>		none	<del></del>	
US	A	20030202 801		none		
US	A	20030227 890		none	· · · · · · · · · · · · · · · · · · ·	